

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Denes *et al.*
Title: PLASMA-ENHANCED
FUNCTIONALIZATION OF
INORGANIC OXIDE
SURFACES
Appl. No.: 10/809,318
Filing Date: 3/24/2004
Examiner: Unsu Jung
Art Unit: 1641
Confirmation Number: 4778

CORRECTED INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. This Form PTO-1449 is being submitted to correct errors in the Form PTO-1449 filed on August 12, 2004, in compliance with the Examiner's request in the Office Action dated July 25, 2006.

A copy of each non-U.S. patent document and each non-patent document was previously submitted with the original Information Disclosure Statement and accompanying Form 1449 filed August 12, 2004, in compliance with the provisions of 37 CFR §1.97 and §1.98. Therefore, copies of these documents are not being resubmitted herewith.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present

application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 50-2350.

Respectfully submitted,

Date January 24, 2007

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INFORMATION DISCLOSURE CITATION

APPLICANT

Denes et al.

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1645

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
		5,080,924	1/14/92	Kamel et al			
		5,132,108	7/21/92	Narayanan et al			
		5,306,768	4/26/94	Hsu et al			
		5,336,518	8/9/94	Narayanan et al			
		6,022,902	2/8/00	Koontz			
		6,106,653	8/22/00	Polizzotti et al			
		6,159,531	12/12/00	Dang et al.			
		6,306,506	10/23/01	Timmons et al.			
		6,402,899	6/11/02	Denes et al			
		6,528,264	3/4/03	Pal et al.			
		6,602,692	8/5/03	Glusenkamp et al			
		2003/0163198 A1	8/28/03	Morra et al.			
		6,630,358	10/7/03	Wagner et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
		EP 0874242 A1	10/28/1998	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Rasmussen, et al., "Covalent Immobilization of DNA into Polystyrene Microwells: The Molecules are only Bound at the 5' End," <i>Analytical Biochemistry</i> , 198 , pp. 138-142, 1991. Published by Academic Press, Inc. 21
		Timofeev, et al., "Regioslective Immobilization of Short Oligonucleotides to Acryl Copolymer Gels," <i>Nucleic Acids Research</i> , 24 , No. 16, pp. 3142-3148, 1996. Published by Oxford University Press.
		Parinov, et al., "DNA Sequencing by Hybridization to Microchip Octa- and Decanucleotides Extended by Stacked Pentanucleotides," <i>Nucleic Acids Research</i> , 24 , No. 15, pp. 2998-3004, 1996. Published by Oxford University Press.
		Proudnikov, et al., "Chemical Methods of DNA and RNA Fluorescent Labeling," <i>Nucleic Acids Research</i> , Vol. 24 , No. 22, pp. 4535-4542, 1996. Published by Oxford University Press.
		Guschin, et al., "Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips," <i>Analytical Biochemistry</i> , 250 , pp. 203-211, 1997. Published by Academic Press.
		Fotin, et al., "Parallel Thermodynamic Analysis of Duplexes on Oligodeoxyribonucleotide Microchips," <i>Nucleic Acids Research</i> , 26 , No. 6, pp. 1515-1521, 1998. Published by Oxford University Press.
		Proudnikov, et al., "Immobilization of DNA in Polyacrylamide Gel for the Manufacture of DNA and DNA-Oligonucleotide Microchips," <i>Analytical Biochemistry</i> 259 , pp. 34-41, 1998. Published by Academic Press.

		Wang, et al., "Polishable and Renewable DNA Hybridization Biosensors," <i>Anal Chem</i> , 70 , pp. 3699-3702, 1998. Published by the American Chemical Society.—
		Podymnugin, et al., "Attachment of Benzaldehyde-modified Oligodeoxynucleotide Probes to Semicarbazide-Coated Glass," <i>Nucleic Acids Research</i> , Vol. 29 , No. 24, pp. 5090-5098, 2001. Published by Oxford University Press.
		Alvarez-Blanco, et al., "A Novel Plasma-enhanced Way for Surface-functionalization of Polymeric Substrates," <i>Polymer Bulletin</i> , 47 , pp. 329-336, 2001. Published by Springer-Verlag.
		Ivanova, et al., "Feasibility of Using Carboxylic-rich Polymeric Surfaces for the Covalent Binding of Oligonucleotides for microPCR Applications," <i>Smart Mater. Struct.</i> , 11 , pp. 783-791, 2002. Published by Institute of Physics Publishing.
		Metzger, et al., "Signal to Noise Comparison Acceler8 OptArray vs. The Leading Polymer and Silane Microarray Slide Chemistries," <i>Technical Bulletin</i> , No. TB0400, 2002.
		Yang, et al., "DNA-modified Nanocrystalline Diamond Thin-films as Stable, Biologically Active Substrates," <i>Nature Materials</i> , 1 , No. 4, pp. 253-257, 2002. Published by Nature Publishing Group.
		Cheung, et al., "5'-Thiolated Oligonucleotides on (3-Mercaptopropyl) trimethoxysilaten-Mica: Surface Topography and Coverage," printed from Web, June 5, 2003. <i>Langmuir</i> , Vol. 19 , pp. 5846-5850, 2003, published by American Chemical Society.
		Liu, et al., "DNA Probe Attachment on Plastic Surfaces and Microfluidic Hybridization Array Channel Devices with Sample Oscillation," <i>Analytical Biochemistry</i> 317 , pp. 76-84, 2003. Published by Academic Press.
		"Motorola Goes for Organic Growth with Biochips," http://www.groupweb.com/sci_tech/jun_30/motorola.html Website article printed on 1/2/00.
		Quan, "Motorola's Biochip Center Aims for a Healthier World," <i>EE Times</i> , 16 February 1999, http://www.edn.com/story/tech/OEG19990216S0030-R . Website article printed on 8/6/04.
		"EasySpot Microarray Slide," http://www.u-vision-biotech.com/english/product_service/easy_oligo . Website article printed on 2/19/04.
		"Novel surface chemistry for DNA immobilization," http://hamers.chem.wisc.edu/research/bioattachment/dna_on_silicon.htm . Website article printed on 3/2/03.
		"Motorola and Packard to produce 'biochips'" http://www4.nando.net/newsroom/ntn/health/062998/health7_12937_noframes.html . Website article printed on 1/2/00.
		"Biochip," http://www.whatis.com/biochip.html . Website article printed on 1/2/00.
		"New 'Biochips' Aimed at Medicine, Agriculture," http://www.pcworld.com/pcwtoday/article/0,1510,7313,00.html . Website article printed on 1/2/00.
		"Microarray Substrates & Slides," http://arrayit.com/Products/Substrates/ . Website article printed on 8/9/04.
		"Super Epoxy Substrates," http://arrayit.com/Products/Substrates/SME/sme.html . Website article printed on 8/6/04.
		"Biomolecule Immobilization," http://www.surmodics.com/pageDetail.aspx?pageld=10&menuID=10 , Website article printed on 2/19/2004.
		"Photolink Manufacturing Process," http://www.surmodics.com/pageDetail.aspx?pageld=7&menuID=7 , Website article printed on 2/19/2004.
		"A Specific Surface for a Specific Application," http://www.vwrcanlab.com , Website article printed prior to March 24, 2004.
EXAMINER		DATE CONSIDERED
<p>• EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.</p>		